

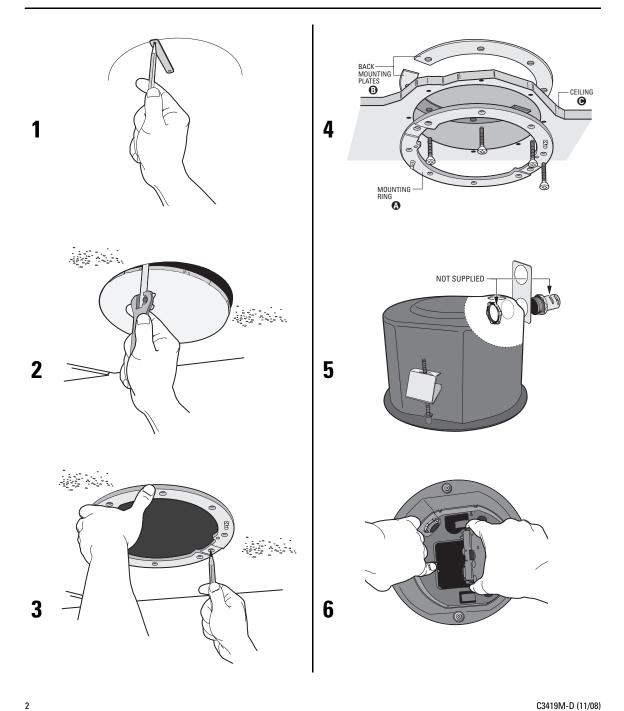
by Schneider Electric

Heavy Duty Spectra® IV Series



In-Ceiling Back Box

Installation



- 1. Locate the center point of the mounting location and insert the compass tool into the ceiling. Draw a circle.
- 2. Cut out the circle.
- 3. Use the mounting ring as a template to mark the screw hole pattern onto the mounting surface. Prepare the holes.
- 4. Install the mounting plates. Use the eight 10-32 x 3-inch screws (supplied) to install the mounting ring (A) and the two back mounting plates (B).
 - a. Line up the mounting ring with the eight fastener holes.
 - b. Feed one back mounting plate (B) through the hole in the ceiling (C). Line up the plate with the four fastener holes.
 - c. Install fasteners through the mounting ring (A), ceiling, and out the back mounting plate (B).
 - d. Install the second back mounting plate (B).
- 5. Attach a conduit fitting (not supplied), lock nut (not supplied), and safety chain bracket. Install a safety chain/cable (not supplied), which will support up to 16 pounds (7.3 kg).
- 6. Open the hinged door to the back box. Push the tab lock toward the wall of the unit and lift the door open. Pull the wiring into the back box through the conduit fitting. Refer to Table A, Table B, and Table C for wiring distances.

Table A. Video Coaxial Cable Requirements

Cable Type*	Maximum Distance
RG59/U	750 ft (229 m)
RG6/U	1,000 ft (305 m)
RG11/U	1,500 ft (457 m)

^{*}Cable requirements:
75-ohm impedance
All-copper center conductor
All-copper braided shield with 95% braid
coverage

 Table B. 24 VAC/24VDC Wiring Distances

Below are the recommended maximum distances for 24 VAC and 24 VDC applications and are calculated with a 10 percent voltage drop. (Ten percent is generally the maximum allowable voltage drop for AC-or DC-powered devices.)

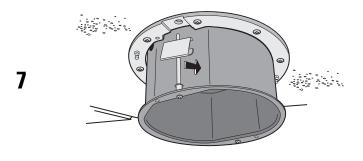
AC/DC		Wire (Gauge	
Total VA/	20 AWG	18 AWG	16 AWG	14 AWG
Total Watts	(0.5 mm ²)	(1.0 mm²)	(1.5 mm²)	(2.5 mm²)
23 VA/	123 ft	196 ft	311 ft	495 ft
15 W	(38 m)	(60 m)	(95 m)	(151 m)

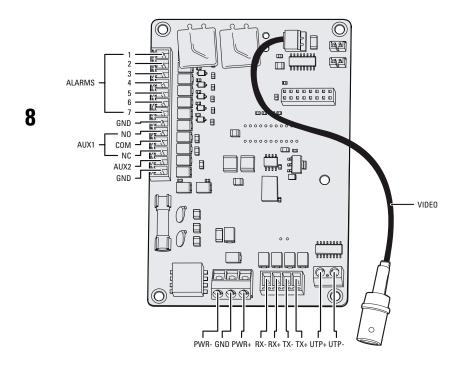
NOTE: Input power for the dome is 24 VAC or 24 VDC. Using 24 VAC input power, power consumption is 23 VA per dome. Using 24 VDC input power, power consumption is 0.7 A (15 W). Use a 24 VAC transformer with a minimum of 40 VA per dome.

 Table C. UTP Wiring Distances

Receiver	Maximum Distance
Active	0-3,000 ft
(Video Only)	(0-914.4 m)
Passive	0-750 ft
(Video, Coaxitron®, Pelco V-Sync)	(0-228.6 m)

NOTE: As a minimum, UTP requires Cat5, 100-ohm twisted pair cable.

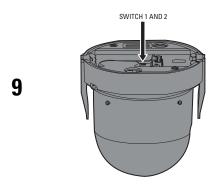


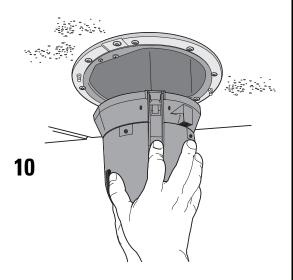


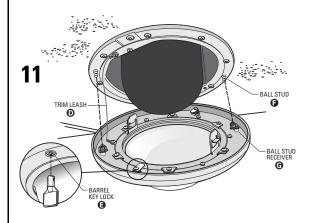
- 7. Install the back box by compressing the spring clips and pushing the back box through the hole. Tighten the screws until you hear a clicking noise.
- **WARNING:** An electrical short in the back box may occur if the metal BNC connector is not completely covered by the protective boot.
- 8. Connect the wiring to the circuit board inside the back box. When finished, close the door to the back box and turn on the power. The green LED will glow.

NOTES:

- Aux 1: Maximum 2 A at low voltage (<40 V)
 - Aux 2: Maximum 30 mA at 32 VDC
- If you are using both unshielded twisted pair (UTP) wiring and a translator board, install the UTP wiring before
 installing the translator board.







9. Configure DIP switches SW1 and SW2 located on the top of the dome drive. For DIP switch settings, refer to the labels located on the top of the dome drive or to *Switch Settings* on page 8.

NOTE: When connecting more than one Spectra® dome to a single controller, terminate the unit farthest from the controller. To terminate the dome drive set the SW2-10 switch to the ON position.

10. Install the dome drive. Refer to Table D for a list of a compatible dome drives and back boxes. Line up the blue and red tabs with the blue and red arrows on the hinged door inside the back box; push in the tabs. Insert one side and then the other side. Continue pushing on the ends of the tabs until both sides click into place.

Table D. Spectra Dome Drive and Back Box Compatibility

Dome Drive	Back Box					
Donic Brive	Spectra II	Spectra III	Spectra IV			
Spectra II	•					
Spectra III™	•	•	•			
Spectra IV	•	•	•			

11. Install the lower dome. Snap the clip of the lower trim ring leash (D) into the hole on the lip of the back box. Insert both keys in the barrel locks (E). Turn keys clockwise to the unlocked position. Keys cannot be removed from the lock while in the unlocked position. Align ball studs (F), located on the mount ring, with the ball stud receptacles (G), located on the inside of the lower dome. Place the lower dome over the back box. Hold and turn both keys to the locked position.

To use your dome, refer to the operation and programming manual.

Troubleshooting

If your dome does not start properly after installation, perform the following steps.

- 1. Check the fuse on the circuit board inside the back box for continuity. Replace the fuse if needed.
- 2. Check the wiring with a volt meter to ensure the back box is receiving proper voltage.

If your dome starts correctly, but you do not have accurate control, perform the following steps.

1. Check the signal with a volt meter or an oscilloscope.

NOTE: This step will not apply if you are using Coaxitron control.

- 2. Ensure that the switch settings on the dome drive are set correctly. Refer to Switch Settings on page 8.
- 3. If you are using a Pelco controller, ensure that the factory-installed 16-pin jumper has not been removed. If you are using a third-party controller, a TXB Series translator board must be installed. The dome will not function without this 16-pin jumper or a translator board installed.

Switch Settings

NARNING: If you are using Pelco D-type or P-type control, your system may not operate if the baud rate and address switches are not set correctly. The switches are set at the factory at the defaults for Pelco D-type control (2400 baud and address 1).

Table E. Switch Settings for SW2

Special Systems										
Switch Number	1	2	3	4	5	6	7	8	9	10
AD-32 Preset System	ON									
CM9502 Setting		ON								
Vicon™	Not currently available; SW2-3 is reserved for future use.									
Serial Port Settings										
Switch Number	1	2	3	4	5	6	7	8	9	10
RS422				OFF	OFF					
RS485, 4-Wire				OFF	ON					
RS485, 2-Wire				ON	ON					
Pelco D or P Protocol Baud Rate										
Switch Number	1	2	3	4	5	6	7	8	9	10
2400 Baud (Default for D-type Control)						OFF	OFF	OFF		
4800 Baud (Default for P-type Control)						ON	OFF	OFF		
9600 Baud						OFF	ON	OFF		
Video Cable Type										
Switch Number	1	2	3	4	5	6	7	8	9	10
Coaxial Cable									OFF	
UTP Cable									ON	
Dome Termination										
Switch Number	1	2	3	4	5	6	7	8	9	10
Terminated										ON
Not Terminated										OFF

Table F. Switch Settings for SW1, P-Type Control

NOTE: For Coaxitron controls, SW1 is not used; set all switches to OFF. For D-type control systems, refer to Table G.

SPECTRA		SW	ITCH SETTI	ING	
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5
1	0FF	0FF	0FF	0FF	0FF
2	ON	0FF	OFF	OFF	OFF
3	OFF	ON	OFF	OFF	OFF
4	ON	ON	OFF	OFF	OFF
5	OFF	OFF	ON	OFF	OFF
6	ON	0FF	ON	0FF	0FF
7	0FF	ON	ON	0FF	0FF
8	ON	ON	ON	0FF	0FF
9	0FF	0FF	0FF	ON	0FF
10	ON	0FF	0FF	ON	0FF
11	0FF	ON	0FF	ON	0FF
12	ON	ON	0FF	ON	0FF
13	0FF	0FF	ON	ON	0FF
14	ON	0FF	ON	ON	OFF
15	0FF	ON	ON	ON	0FF
16	ON	ON	ON	ON	OFF

SPECTRA		SW	ITCH SETTI	NG	
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5
17	0FF	0FF	0FF	0FF	ON
18	ON	0FF	OFF	OFF	ON
19	0FF	ON	OFF	OFF	ON
20	ON	ON	OFF	OFF	ON
21	0FF	0FF	ON	0FF	ON
22	ON	0FF	ON	0FF	ON
23	0FF	ON	ON	0FF	ON
24	ON	ON	ON	0FF	ON
25	0FF	0FF	0FF	ON	ON
26	ON	0FF	0FF	ON	ON
27	0FF	ON	0FF	ON	ON
28	ON	ON	0FF	ON	ON
29	0FF	0FF	ON	ON	ON
30	ON	0FF	ON	ON	ON
31	0FF	ON	ON	ON	ON
32	ON	ON	ON	ON	ON

Table G. Switch Settings for SW1, D-Type Control

NOTE: For Coaxitron controls, SW1 is not used; set all switches to OFF. For P-type control systems, refer to Table F.

SPECTRA		SWITCH SETTING								
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8		
1	ON	0FF	0FF	OFF	0FF	0FF	0FF	0FF		
2	0FF	ON	0FF	OFF	OFF	0FF	0FF	0FF		
3	ON	ON	0FF	OFF	0FF	0FF	0FF	0FF		
4	0FF	OFF	ON	OFF	OFF	0FF	0FF	0FF		
5	ON	OFF	ON	OFF	OFF	OFF	0FF	0FF		
6	0FF	ON	ON	OFF	OFF	0FF	0FF	0FF		
7	ON	ON	ON	OFF	OFF	OFF	0FF	OFF		
8	0FF	OFF	0FF	ON	OFF	0FF	0FF	0FF		
9	ON	0FF	0FF	ON	0FF	OFF	0FF	0FF		
10	0FF	ON	0FF	ON	OFF	0FF	0FF	0FF		
11	ON	ON	0FF	ON	0FF	OFF	0FF	OFF		
12	0FF	OFF	ON	ON	OFF	0FF	0FF	0FF		
13	ON	0FF	ON	ON	0FF	0FF	0FF	0FF		
14	OFF	ON	ON	ON	OFF	OFF	0FF	OFF		
15	ON	ON	ON	ON	OFF	OFF	OFF	OFF		

SPECTRA				SWITCH	SETTING	ì		
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
16	OFF	0FF	OFF	0FF	ON	0FF	0FF	0FF
17	ON	OFF	OFF	0FF	ON	0FF	0FF	0FF
18	OFF	ON	OFF	0FF	ON	OFF	OFF	0FF
19	ON	ON	OFF	0FF	ON	0FF	0FF	0FF
20	OFF	0FF	ON	0FF	ON	OFF	0FF	OFF
21	ON	0FF	ON	0FF	ON	0FF	0FF	0FF
22	OFF	ON	ON	0FF	ON	OFF	0FF	OFF
23	ON	ON	ON	0FF	ON	0FF	0FF	0FF
24	OFF	0FF	OFF	ON	ON	0FF	0FF	0FF
25	ON	OFF	OFF	ON	ON	0FF	0FF	0FF
26	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
27	ON	ON	OFF	ON	ON	0FF	0FF	0FF
28	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
29	ON	OFF	ON	ON	ON	OFF	OFF	0FF
30	OFF	ON	ON	ON	ON	OFF	OFF	OFF

SPECTRA			;	SWITCH	SETTING	3		
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
31	ON	ON	ON	ON	ON	OFF	0FF	0FF
32	OFF	OFF	0FF	OFF	OFF	ON	OFF	0FF
33	ON	0FF	0FF	OFF	0FF	ON	OFF	0FF
34	OFF	ON	0FF	OFF	0FF	ON	OFF	0FF
35	ON	ON	0FF	OFF	OFF	ON	OFF	0FF
36	0FF	OFF	ON	0FF	OFF	ON	OFF	0FF
37	ON	OFF	ON	OFF	OFF	ON	OFF	OFF
38	0FF	ON	ON	OFF	0FF	ON	0FF	0FF
39	ON	ON	ON	OFF	0FF	ON	0FF	0FF
40	OFF	OFF	0FF	ON	OFF	ON	OFF	OFF
41	ON	0FF	0FF	ON	0FF	ON	0FF	0FF
42	0FF	ON	0FF	ON	0FF	ON	0FF	0FF
43	ON	ON	0FF	ON	0FF	ON	0FF	0FF
44	0FF	0FF	ON	ON	0FF	ON	0FF	0FF
45	ON	0FF	ON	ON	0FF	ON	0FF	0FF
46	0FF	ON	ON	ON	0FF	ON	0FF	0FF
47	ON	ON	ON	ON	OFF	ON	OFF	OFF
48	0FF	OFF	0FF	0FF	ON	ON	OFF	0FF
49	ON	OFF	0FF	OFF	ON	ON	OFF	0FF
50	0FF	ON	0FF	OFF	ON	ON	0FF	0FF
51	ON	ON	0FF	OFF	ON	ON	0FF	0FF
52	0FF	0FF	ON	OFF	ON	ON	0FF	0FF
53	ON	OFF	ON	OFF	ON	ON	OFF	0FF
54	0FF	ON	ON	OFF	ON	ON	0FF	0FF
55	ON	ON	ON	OFF	ON	ON	OFF	0FF
56	OFF	OFF	0FF	ON	ON	ON	OFF	0FF
57	ON	0FF	OFF	ON	ON	ON	0FF	0FF
58	OFF	ON	OFF	ON	ON	ON	OFF	0FF
59	ON	ON	OFF	ON	ON	ON	OFF	0FF
60	0FF	OFF	ON	ON	ON	ON	OFF	0FF
61	ON	OFF	ON	ON	ON	ON	OFF	0FF
62	0FF	ON	ON	ON	ON	ON	OFF	0FF
63	ON	ON	ON	ON	ON	ON	OFF	0FF
64	OFF	0FF	0FF	0FF	0FF	0FF	ON	0FF
65	ON	OFF	OFF	OFF	OFF	OFF	ON	0FF
66	OFF	ON	0FF	0FF	0FF	0FF	ON	0FF
67	ON	ON	0FF	OFF	OFF	OFF	ON	0FF
68	OFF	OFF	ON	OFF	OFF	OFF	ON	0FF
69	ON	OFF	ON	OFF	OFF	OFF	ON	0FF
70	0FF	ON	ON	OFF	OFF	OFF	ON	0FF

SPECTRA			5	WITCH	SETTING	ì		
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
71	ON	ON	ON	OFF	OFF	OFF	ON	0FF
72	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF
73	ON	OFF	OFF	ON	OFF	0FF	ON	OFF
74	OFF	ON	OFF	ON	OFF	0FF	ON	OFF
75	ON	ON	OFF	ON	OFF	0FF	ON	OFF
76	OFF	OFF	ON	ON	OFF	0FF	ON	OFF
77	ON	OFF	ON	ON	OFF	0FF	ON	0FF
78	OFF	ON	ON	ON	OFF	0FF	ON	0FF
79	ON	ON	ON	ON	OFF	0FF	ON	OFF
80	OFF	OFF	OFF	OFF	ON	0FF	ON	0FF
81	ON	OFF	OFF	OFF	ON	OFF	ON	OFF
82	0FF	ON	OFF	OFF	ON	0FF	ON	0FF
83	ON	ON	OFF	OFF	ON	OFF	ON	OFF
84	0FF	OFF	ON	OFF	ON	0FF	ON	0FF
85	ON	OFF	ON	OFF	ON	OFF	ON	OFF
86	OFF	ON	ON	OFF	ON	0FF	ON	OFF
87	ON	ON	ON	OFF	ON	0FF	ON	0FF
88	OFF	OFF	OFF	ON	ON	0FF	ON	0FF
89	ON	OFF	OFF	ON	ON	0FF	ON	OFF
90	OFF	ON	OFF	ON	ON	0FF	ON	0FF
91	ON	ON	OFF	ON	ON	0FF	ON	OFF
92	OFF	OFF	ON	ON	ON	0FF	ON	0FF
93	ON	OFF	ON	ON	ON	0FF	ON	0FF
94	0FF	ON	ON	ON	ON	0FF	ON	0FF
95	ON	ON	ON	ON	ON	0FF	ON	OFF
96	OFF	OFF	OFF	OFF	OFF	ON	ON	0FF
97	ON	OFF	OFF	OFF	0FF	ON	ON	0FF
98	OFF	ON	OFF	OFF	OFF	ON	ON	0FF
99	ON	ON	OFF	OFF	OFF	ON	ON	OFF
100	0FF	OFF	ON	OFF	0FF	ON	ON	0FF
101	ON	OFF	ON	OFF	OFF	ON	ON	OFF
102	0FF	ON	ON	0FF	0FF	ON	ON	0FF
103	ON	ON	ON	OFF	OFF	ON	ON	OFF
104	0FF	OFF	0FF	ON	0FF	ON	ON	0FF
105	ON	0FF	0FF	ON	0FF	ON	ON	0FF
106	OFF	ON	OFF	ON	OFF	ON	ON	0FF
107	ON	ON	0FF	ON	0FF	ON	ON	0FF
108	0FF	0FF	ON	ON	OFF	ON	ON	0FF
109	ON	0FF	ON	ON	0FF	ON	ON	0FF
110	OFF	ON	ON	ON	OFF	ON	ON	OFF

SPECTRA			;	SWITCH	SETTING	3		
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
111	ON	ON	ON	ON	OFF	ON	ON	0FF
112	OFF	0FF	0FF	OFF	ON	ON	ON	0FF
113	ON	0FF	0FF	OFF	ON	ON	ON	0FF
114	OFF	ON	0FF	OFF	ON	ON	ON	0FF
115	ON	ON	0FF	OFF	ON	ON	ON	OFF
116	0FF	0FF	ON	OFF	ON	ON	ON	0FF
117	ON	0FF	ON	OFF	ON	ON	ON	0FF
118	OFF	ON	ON	OFF	ON	ON	ON	OFF
119	ON	ON	ON	OFF	ON	ON	ON	OFF
120	0FF	0FF	0FF	ON	ON	ON	ON	0FF
121	ON	0FF	0FF	ON	ON	ON	ON	0FF
122	OFF	ON	0FF	ON	ON	ON	ON	0FF
123	ON	ON	0FF	ON	ON	ON	ON	0FF
124	OFF	0FF	ON	ON	ON	ON	ON	0FF
125	ON	0FF	ON	ON	ON	ON	ON	0FF
126	OFF	ON	ON	ON	ON	ON	ON	0FF
127	ON	ON	ON	ON	ON	ON	ON	OFF
128	0FF	OFF	0FF	OFF	OFF	0FF	OFF	ON
129	ON	0FF	0FF	OFF	0FF	OFF	OFF	ON
130	OFF	ON	0FF	OFF	0FF	0FF	0FF	ON
131	ON	ON	0FF	OFF	0FF	0FF	0FF	ON
132	OFF	0FF	ON	OFF	0FF	0FF	0FF	ON
133	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
134	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
135	ON	ON	ON	OFF	OFF	OFF	OFF	ON
136	OFF	OFF	0FF	ON	OFF	OFF	OFF	ON
137	ON	OFF	OFF	ON	OFF	OFF	OFF	ON
138	OFF	ON	OFF	ON	OFF	OFF	OFF	ON
139	ON	ON	OFF	ON	OFF	OFF	OFF	ON
140	OFF	OFF	ON	ON	OFF	OFF	OFF	ON
141	ON	OFF	ON	ON	OFF	0FF	OFF	ON
142	0FF	ON	ON	ON	0FF	0FF	OFF	ON
143	ON	ON	ON	ON	OFF	0FF	OFF	ON
144	0FF	0FF	0FF	0FF	ON	OFF	0FF	ON
145	ON	OFF	0FF	OFF	ON	OFF	0FF	ON
146	OFF	ON	0FF	OFF	ON	OFF	0FF	ON
147	ON	ON	0FF	OFF	ON	OFF	0FF	ON
148	OFF	OFF	ON	OFF	ON	OFF	0FF	ON
149	ON	OFF	ON	OFF	ON	OFF	OFF	ON
150	OFF	ON	ON	OFF	ON	OFF	0FF	ON

SPECTRA			,	SWITCH	SETTING	ì		
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
151	ON	ON	ON	OFF	ON	OFF	OFF	ON
152	OFF	OFF	OFF	ON	ON	OFF	OFF	ON
153	ON	OFF	OFF	ON	ON	OFF	OFF	ON
154	OFF	ON	OFF	ON	ON	OFF	OFF	ON
155	ON	ON	OFF	ON	ON	OFF	OFF	ON
156	OFF	OFF	ON	ON	ON	OFF	OFF	ON
157	ON	OFF	ON	ON	ON	OFF	OFF	ON
158	OFF	ON	ON	ON	ON	0FF	OFF	ON
159	ON	ON	ON	ON	ON	OFF	OFF	ON
160	OFF	OFF	0FF	0FF	0FF	ON	OFF	ON
161	ON	OFF	0FF	OFF	0FF	ON	OFF	ON
162	OFF	ON	0FF	0FF	0FF	ON	OFF	ON
163	ON	ON	0FF	0FF	0FF	ON	0FF	ON
164	0FF	0FF	ON	0FF	0FF	ON	0FF	ON
165	ON	OFF	ON	0FF	0FF	ON	0FF	ON
166	0FF	ON	ON	0FF	0FF	ON	0FF	ON
167	ON	ON	ON	0FF	0FF	ON	0FF	ON
168	OFF	OFF	0FF	ON	0FF	ON	0FF	ON
169	ON	OFF	OFF	ON	OFF	ON	OFF	ON
170	OFF	ON	0FF	ON	0FF	ON	OFF	ON
171	ON	ON	OFF	ON	OFF	ON	OFF	ON
172	0FF	0FF	ON	ON	0FF	ON	0FF	ON
173	ON	OFF	ON	ON	0FF	ON	0FF	ON
174	0FF	ON	ON	ON	0FF	ON	0FF	ON
175	ON	ON	ON	ON	0FF	ON	0FF	ON
176	OFF	OFF	0FF	OFF	ON	ON	0FF	ON
177	ON	OFF	0FF	0FF	ON	ON	0FF	ON
178	0FF	ON	0FF	0FF	ON	ON	0FF	ON
179	ON	ON	OFF	OFF	ON	ON	0FF	ON
180	OFF	0FF	ON	0FF	ON	ON	0FF	ON
181	ON	OFF	ON	OFF	ON	ON	OFF	ON
182	OFF	ON	ON	0FF	ON	ON	0FF	ON
183	ON	ON	ON	OFF	ON	ON	OFF	ON
184	0FF	0FF	0FF	ON	ON	ON	OFF	ON
185	ON	OFF	0FF	ON	ON	ON	OFF	ON
186	OFF	ON	OFF	ON	ON	ON	OFF	ON
187	ON	ON	0FF	ON	ON	ON	OFF	ON
188	OFF	OFF	ON	ON	ON	ON	OFF	ON
189	ON	OFF	ON	ON	ON	ON	OFF	ON
190	0FF	ON	ON	ON	ON	ON	0FF	ON

SPECTRA			,	SWITCH	SETTING	3		
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
191	ON	ON	ON	ON	ON	ON	0FF	ON
192	OFF	0FF	0FF	0FF	0FF	OFF	ON	ON
193	ON	OFF	0FF	OFF	OFF	OFF	ON	ON
194	0FF	ON	0FF	0FF	0FF	0FF	ON	ON
195	ON	ON	0FF	0FF	0FF	0FF	ON	ON
196	OFF	OFF	ON	OFF	OFF	OFF	ON	ON
197	ON	0FF	ON	OFF	OFF	OFF	ON	ON
198	OFF	ON	ON	OFF	OFF	OFF	ON	ON
199	ON	ON	ON	0FF	0FF	OFF	ON	ON
200	0FF	OFF	0FF	ON	0FF	OFF	ON	ON
201	ON	OFF	0FF	ON	OFF	OFF	ON	ON
202	OFF	ON	0FF	ON	0FF	OFF	ON	ON
203	ON	ON	0FF	ON	OFF	OFF	ON	ON
204	OFF	OFF	ON	ON	OFF	OFF	ON	ON
205	ON	0FF	ON	ON	0FF	OFF	ON	ON
206	0FF	ON	ON	ON	0FF	OFF	ON	ON
207	ON	ON	ON	ON	0FF	OFF	ON	ON
208	OFF	0FF	OFF	OFF	ON	OFF	ON	ON
209	ON	OFF	OFF	OFF	ON	OFF	ON	ON
210	OFF	ON	OFF	OFF	ON	OFF	ON	ON
211	ON	ON	OFF	OFF	ON	OFF	ON	ON
212	OFF	0FF	ON	OFF	ON	OFF	ON	ON
213	ON	OFF	ON	OFF	ON	OFF	ON	ON
214	0FF	ON	ON	0FF	ON	0FF	ON	ON
215	ON	ON	ON	0FF	ON	OFF	ON	ON
216	0FF	0FF	0FF	ON	ON	0FF	ON	ON
217	ON	OFF	OFF	ON	ON	OFF	ON	ON
218	OFF	ON	0FF	ON	ON	OFF	ON	ON
219	ON	ON	OFF	ON	ON	OFF	ON	ON
220	OFF	0FF	ON	ON	ON	OFF	ON	ON
221	ON	OFF	ON	ON	ON	OFF	ON	ON
222	OFF	ON	ON	ON	ON	0FF	ON	ON

SPECTRA				SWITCH	SETTING	ì		
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
223	ON	ON	ON	ON	ON	0FF	ON	ON
224	OFF	0FF	0FF	0FF	0FF	ON	ON	ON
225	ON	0FF	0FF	0FF	0FF	ON	ON	ON
226	OFF	ON	OFF	OFF	OFF	ON	ON	ON
227	ON	ON	OFF	OFF	OFF	ON	ON	ON
228	OFF	OFF	ON	0FF	OFF	ON	ON	ON
229	ON	OFF	ON	OFF	OFF	ON	ON	ON
230	0FF	ON	ON	0FF	0FF	ON	ON	ON
231	ON	ON	ON	0FF	0FF	ON	ON	ON
232	OFF	0FF	0FF	ON	0FF	ON	ON	ON
233	ON	0FF	0FF	ON	0FF	ON	ON	ON
234	OFF	ON	0FF	ON	0FF	ON	ON	ON
235	ON	ON	0FF	ON	0FF	ON	ON	ON
236	OFF	0FF	ON	ON	0FF	ON	ON	ON
237	ON	OFF	ON	ON	OFF	ON	ON	ON
238	OFF	ON	ON	ON	OFF	ON	ON	ON
239	ON	ON	ON	ON	OFF	ON	ON	ON
240	OFF	OFF	OFF	OFF	ON	ON	ON	ON
241	ON	OFF	OFF	OFF	ON	ON	ON	ON
242	OFF	ON	OFF	OFF	ON	ON	ON	ON
243	ON	ON	OFF	OFF	ON	ON	ON	ON
244	OFF	OFF	ON	OFF	ON	ON	ON	ON
245	ON	OFF	ON	OFF	ON	ON	ON	ON
246	OFF	ON	ON	0FF	ON	ON	ON	ON
247	ON	ON	ON	0FF	ON	ON	ON	ON
248	0FF	0FF	0FF	ON	ON	ON	ON	ON
249	ON	OFF	0FF	ON	ON	ON	ON	ON
250	OFF	ON	0FF	ON	ON	ON	ON	ON
251	ON	ON	OFF	ON	ON	ON	ON	ON
252	OFF	0FF	ON	ON	ON	ON	ON	ON
253	ON	OFF	ON	ON	ON	ON	ON	ON
254	0FF	ON	ON	ON	ON	ON	ON	ON

Specifications

GENERAL

Construction
Back Box Aluminum

Dome Drive Aluminum, thermoplastic Lower Dome Clear polycarbonate, 0.090-inch

thick

Cage Thickness 0.12 x 0.30-inch cast stainless

steel

Cage Color Black, for maximum discreetness

Cable Entry (Back Box) 0.75-inch conduit fitting

Pan Movement 360° continuous pan rotation

Vertical Tilt +2° to -92°

Manual Pan/Tilt Speeds*

Pan 0.1°- 80°/sec manual operation,

150°/sec turbo

Tilt 0.1°- 40°/sec

Preset Speeds

Pan 400°/sec
Tilt 200°/sec
Environment Indoor only

Operating Temperature 32° to 122°F (0° to 50°C)

Weight (approximate)

 Back Box
 2.17 lb (0.98 kg)

 Dome Drive
 3.30 lb (1.48 kg)

 Lower Dome
 0.20 lb (0.09 kg)

 In-Ceiling
 1.60 lb (0.73 kg)

 In-Ceiling with Cage
 3.60 lb (1.63 kg)

ELECTRICAL (Dome Drive Only)

Input Voltage 18–32 VAC; 24 VAC nominal

22-27 VDC; 24 VDC nominal

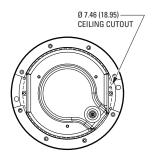
Input Power

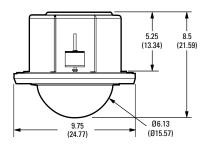
24 VAC 23 VA nominal (indoor, without heater) 24 VDC 0.7 A nominal (indoor, without heater)

Fuse 1.25 A

Auxiliary Outputs 2 (Spectra IV SE only)
Alarm Inputs 7 (Spectra IV SE only)

^{*}For variable-speed operation, an appropriate controller is required. With fixed-speed controllers, pan/tilt speed is 20°/sec. The CM6700/CM6800 controller with the KBD200A keyboard has programmable fixed speeds.





NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

🖾 Green The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- · Five years:
 - Fiber optic products
 - TW3000 Series unshielded twisted pair (UTP) transmission products
 - CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models
- · Three years:
 - Pelco-branded fixed camera models (CCC1390H Series, C10DN Series, C10CH Series, and IP3701H Series)
 - EH1500 Series enclosures
 - Spectra® IV products (including Spectra IV IP)
 - Camclosure® Series (IS, ICS, IP) integrated camera systems
 - DX Series digital video recorders, DVR5100 Series digital video recorders, Digital Sentry® Series hardware products, DVX Series digital video recorders, and NVR300 Series network video recorders
 - Endura® Series distributed network-based video products
 - Genex® Series products (multiplexers, server, and keyboard)
 - PMCL200/300/400 Series LCD monitors
- Two years:
 - Standard motorized or fixed focal length lenses
 - DF5/DF8 Series fixed dome products
 - Legacy® Series integrated positioning systems
 - Spectra III™, Spectra Mini, Spectra Mini IP, Esprit®, ExSite®, and PS20 scanners, including when used in continuous motion applications.
 - Esprit Ti and TI2500 Series thermal imaging products
 - Esprit and WW5700 Series window wiper (excluding wiper blades).
 - CM6700/CM6800/CM9700 Series matrix
 - Digital Light Processing (DLP®) displays (except lamp and color wheel).
 The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
 - Intelli-M® eIDC controllers
- One yea
 - Video cassette recorders (VCRs), except video heads. Video heads will be covered for a period of six months.
- · Six months
 - All pan and tilts, scanners, or preset lenses used in continuous motion applications (preset scan, tour, and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to a Pelco designated location. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental, or consequential damages (including loss of use, loss of profit, and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

- 1. Model and serial number
- 2. Date of shipment, P.O. number, sales order number, or Pelco invoice number
- 3. Details of the defect or problem

If there is a dispute regarding the warranty of a product that does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

To expedite parts returned for repair or credit, please call Pelco at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair) and designated return location.

All merchandise returned for credit may be subject to a 20 percent restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid

11-11-08

REVISION HISTORY

Manual #	Date	Comments
C3419M	8/06	Original version.
C3419M-A	9/06	Corrected illustration 8.
C3419M-B	11/06	Inserted compatibility table. Added serial port settings to Table E.
C3419M-C	9/08	Updated manual to indicate that conduit fittings and lock nuts are no longer supplied.
C3419M-D	11/08	Added detail to dimension drawing.

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